

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/759,785
Source: 1Fw9
Date Processed by STIC: 3/16/05

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 03/16/2005

PATENT APPLICATION: US/10/759,785

TIME: 16:24:52

Input Set : A:\Seqlist.txt

Output Set: N:\CRF4\03162005\J759785.raw

```

4 <110> APPLICANT: Levine, Robert Paul
6 <120> TITLE OF INVENTION: Kluyveromyces Strains Metabolizing
7   Cellulosic and Hemicellulosic Materials
10 <130> FILE REFERENCE: PHAGE.018A
12 <140> CURRENT APPLICATION NUMBER: 10/759,785
13 <141> CURRENT FILING DATE: 2004-01-16
15 <150> PRIOR APPLICATION NUMBER: 60/442,455
16 <151> PRIOR FILING DATE: 2003-01-24
18 <160> NUMBER OF SEQ ID NOS: 7
20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 542
24 <212> TYPE: DNA
25 <213> ORGANISM: Kluyveromyces marxianus strain SSSJ-0
27 <220> FEATURE:
28 <221> NAME/KEY: misc_feature
29 <222> LOCATION: 12, 18
30 <223> OTHER INFORMATION: n = A,T,C or G
32 <400> SEQUENCE: 1
W--> 33 ccaaccggga tngccttngt aacggcgagt gaagcgga aagctcaaat ttgaaatctg 60
34 gcgtcttcga cgtccgagtt gtaatttgaa gaagcgact ttgtagctgg tccttgtcta 120
35 tgttccttgg aacaggacgt catagagggt gagaatcccg tgtggcgagg atcccagtta 180
36 tttgtaaagt gctttcgacg agtcgagttg tttgggaatg cagctctaag tgggtggtaa 240
37 attccatcta aagctaaata ttggcgagag accgatagcg aacaagtaca gtgatggaaa 300
38 gatgaaaaga actttgaaaa gagagtgaaa aagtacgtga aattgttgaa agggaagggc 360
39 atttgatcag acatggcggt tgccttcggt ttcgctgggc cagcatcagt tttagcgggt 420
40 ggataaatcc tcgggaatgt ggctctgctt cggtagagtg ttatagcccg tgggaataca 480
41 gccagctggg actgaggatt gcgacttttg tcaaggatgc tggcgtaatg gttaaatgcc 540
42 gc 542
44 <210> SEQ ID NO: 2
45 <211> LENGTH: 24
46 <212> TYPE: DNA
47 <213> ORGANISM: Artificial Sequence
49 <220> FEATURE:
50 <223> OTHER INFORMATION: Chemically synthesized D1/D2 primer NL-1
52 <400> SEQUENCE: 2
53 gcatatcaat aagcggagga aaag 24
55 <210> SEQ ID NO: 3
56 <211> LENGTH: 19
57 <212> TYPE: DNA
58 <213> ORGANISM: Artificial Sequence
60 <220> FEATURE:
61 <223> OTHER INFORMATION: Chemically synthesized D1/D2 primer NL-4

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```

63 <400> SEQUENCE: 3
64 ggtccgtggt tcaagacgg                                     19
66 <210> SEQ ID NO: 4
67 <211> LENGTH: 545
68 <212> TYPE: DNA
69 <213> ORGANISM: Kluyveromyces marxianus
71 <400> SEQUENCE: 4
72 aaaccaaccg ggattgcctt agtaacggcg agtgaagcgg caaaagctca aatttgaaat 60
73 ctggcgtcct cgacgtccga gttgtaattt gaagaaggcg actttgtagc tggtccttgt 120
74 ctatgttcct tggaaacagga cgtcatagag ggtgagaatc ccgtgtggcg aggatcccag 180
75 ttatttgtaa agtgctttcg acgagtcgag ttgtttggga atgcagctct aagtgggtgg 240
76 taaattccat ctaaagctaa atattggcga gagaccgata gcgaacaagt acagtgatgg 300
77 aaagatgaaa agaactttga aaagagagtg aaaaagtacg tgaaattgtt gaaaggggaag 360
78 ggcatttgat cagacatggc gtttgcttcg gctttcgctg ggccagcatc agtttttagcg 420
79 gttggataaa tcctcgggaa tgtggctctg ctccggtaga gtgttatagc ccgtgggaat 480
80 acagccagct gggactgagg attgcgactt ttgtcaagga tgctggcgta atggttaaat 540
81 gccgc                                              545
83 <210> SEQ ID NO: 5
84 <211> LENGTH: 545
85 <212> TYPE: DNA
86 <213> ORGANISM: Kluyveromyces lactis
88 <400> SEQUENCE: 5
89 aaaccaaccg ggattgcctt agtaacggcg agtgaagcgg caaaagctca aatttgaaat 60
90 ctggcgtcct cgacgtccga gttgtaattt gaagaaggca actttgtagc tggtccttgt 120
91 ctatgttcct tggaaacagga cgtcatagag ggtgagaatc ccgtgtggcg aggatcccag 180
92 ttatttgtaa agtgctttcg acgagtcgag ttgtttggga atgcagctct aagtgggtgg 240
93 taaattccat ctaaagctaa atattggcga gagaccgata gcgaacaagt acagtgatgg 300
94 aaagatgaaa agaactttga aaagagagtg aaaaagtacg tgaaattgtt gaaaggggaag 360
95 ggcatttgat cagacatggc gtttgcttcg gctttcgctg ggccagcatc agtttttagcg 420
96 gttggataaa tcctcgggaa tgtggctctg ctccggtaga gtgttatagc ccgtgggaat 480
97 acagccagct gggactgagg attgcgactt ttgtcaagga tgctggcgta atggttaaat 540
98 gccgc                                              545
100 <210> SEQ ID NO: 6
101 <211> LENGTH: 545
102 <212> TYPE: DNA
103 <213> ORGANISM: Kluyveromyces wickerhamii
105 <400> SEQUENCE: 6
106 aaaccaaccg ggattgcctt agtaacggcg agtgaagcgg caaaagctca aatttgaaat 60
107 ctggcgtcct cgacgtccga gttgtaattt gaagaaggta actttgtagc tggtccttgt 120
108 ctatgttcct tggaaacagga cgtcatagag ggtgagaatc ccgtgtggcg aggatcccag 180
109 ttatatgtaa agtgctttcg acgagtcgag ttgtttggga atgcagctct aagtgggtgg 240
110 taaattccat ctaaagctaa atattggcga gagaccgata gcgaacaagt acagtgatgg 300
111 aaagatgaaa agaactttga aaagagagtg aaaaagtacg tgaaattgtt gaaaggggaag 360
112 ggcatttgat cagacatggc gtttgcttcg gcgttcgctg ggccagcatc agtttttagcg 420
113 gttggataaa tcctcgggaa tgtagctcta cctcggtaga gtgttatagc ccgtgggaat 480
114 acagccagct gggactgagg attgcgactt ttgtcaagga tgctggcgta atggttaaat 540
115 gccgc                                              545
117 <210> SEQ ID NO: 7
118 <211> LENGTH: 545

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119 <212> TYPE: DNA

120 <213> ORGANISM: Kluyveromyces dobzhanskii

122 <400> SEQUENCE: 7

```
123 aaaccaaccg ggattgcctt agtaacggcg agtgaagcgg caaaagctca aatttgaaat 60
124 ctggcgctctt cgacgtccga gttgtaattt gaagaagggtt actttgtagc tggtccttgt 120
125 ttatgttcct tggaacagga cgtcatagag ggtgagaatc ccgtgtggcg aggataccag 180
126 ttatatgtaa agtactttcg acgagtcgag ttgtttggga atgcagctct aagtgggtgg 240
127 taaattccat ctaaagctaa atattggcga gagaccgata gcgaacaagt acagtgatgg 300
128 aaagatgaaa agaactttga aaagagagtg aaaaagtacg tgaaattggt gaaaggggaag 360
129 ggcatttgat cagacatggc gtttgcttcg gctttcgctg ggccagcatc agttttggcg 420
130 gctggataaa tcctcgggaa tgtggctcta ccgtggtaga gtgttatagc ccgtgggaat 480
131 acagccagct gggactgagg attgcgactt ttgtcaagga tgctggcgta atgggttaaat 540
132 gccgc
```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/759,785

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 12,18

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/759,785

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Input Set : A:\Seqlist.txt

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L:33 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0